

APPENDIX

Pending Claims

1. A binary composition for detecting one or more target nucleic acid sequences comprising:
 - a probe comprising a target-specific portion for sequence-specific hybridization to a target nucleic acid sequence, and a tag; and
 - a mobility-modifier comprising a tail and a tag complement for binding to the tag.
2. The composition of **claim 1** wherein the target-specific portion comprises polynucleotide.
3. The composition of **claim 2** wherein the target-specific portion comprises a 3'-hydroxyl group.
4. The composition of **claim 2** wherein the target-specific portion comprises PNA.
5. The composition of **claim 1** wherein the tag portion comprises polynucleotide.
6. The composition of **claim 5** wherein the tag portion is PNA.
7. The composition of **claim 1** wherein the tag complement portion is PNA
8. The composition of **claim 1** wherein both the tag and tag complement are polynucleotide, and one of the tag complement and tag comprises a sequence selected from the group consisting of (CAG)_n and (TCC)_n wherein n is 1 to 10.

9. The composition of **claim 1** wherein the mobility modifier comprises a tail portion.

10. The composition of **claim 8** wherein the tail is a polymer.

11. The composition of **claim 9** wherein the polymer is selected from the group consisting of polyethyleneoxide and polypeptide.

12. The composition of **claim 1** further comprising a hybridization enhancer.